

ABSTRACT

5 The process which comprises causing cells or a culture
of a microorganism having the activity to introduce hydroxy
into the [n-5]-position (n is an even number of 10 or more)
and hydrogen into the [n-6]-position of a straight-chain fatty
acid having n carbon atoms wherein at least the [n-6]-position
is a double bond to make the [n-6]-position a single bond or
a treated matter thereof to act on a straight-chain fatty acid
10 having n carbon atoms wherein at least the [n-6]-position is
a double bond or a composition containing the fatty acid to
form an [n-5]-hydroxy fatty acid wherein the [n-6]-position
is a single bond, causing cells or a culture of a microorganism
having the activity to β -oxidize an [n-5]-hydroxy fatty acid
15 wherein the [n-6]-position is a single bond or a treated matter
thereof to act on the formed [n-5]-hydroxy fatty acid, and
recovering the formed δ -lactones.